

CLAIMS

What is claimed is:

1. A two way hinge for motor vehicle doors, comprising:
 - a. a fender mount, said fender mount being generally goose neck shaped and having a convex portion and a concave portion, said fender mount further having a first hole positioning plate and a second hole positioning plate, said first hole positioning plate and said second hole positioning plate being positionally opposed to each other, said first hole positioning plate having a first series of holes defined therein, said second hole positioning plate having a second series of holes defined therein, said first and second series of holes being positionally located to correspond to the particular vehicle being installed therein, said fender mount, said first hole positioning plate, and said second hole positioning plate comprising a fender mount assembly;
 - b. a first boss and a second boss being aligned in a parallel relationship and being positioned on an upper portion of said fender mount assembly, said first boss having a first hole defined therein, said second boss having a second hole defined therein, said first and said second hole being axially aligned, a pivot plate, said pivot plate being positioned between said first and said second boss;
 - c. a first threaded pin, said first threaded pin being inserted through said first hole in said first boss and being threadably engaged in said pivot plate, a second threaded pin, said second threaded pin being inserted through said second hole in said second boss and being threadably engaged in said pivot plate, said first and said second threaded pin allowing said pivot plate to pivot about axially aligned holes, said pivot plate having a third through hole defined therein, said third through hole having a counterbore defined therein, said counter bore being located on a short transverse position of said pivot

plate;

- d. a first door plate and a second door plate are positionally located by a door bracket, said first door plate and said second door plate being fixedly attached to said door bracket, said first door plate, said second door plate and said door bracket comprise a door mount assembly, said door mount assembly being shaped to fit within said concave portion of said fender mount assembly, said door hinge bracket being essentially an L shaped bracket, said door hinge bracket mounting to a motor vehicle door frame;
 - e. a fender guard, said fender guard being located in proximity to said first hole positioning plate, said fender guard preventing a motor vehicle door from damaging the sheet metal of a motor vehicle;
 - f. a third pivot pin, said third pivot pin being inserted into said counterbored hole in said pivot plate, said third pivot pin being attached to said door mount assembly and allowing said pivot plate to rotate about said third pivot pin;
 - g. said pivot plate having a beveled portion defined thereon, said beveled portion defining the horizontal rotational angle of the two way hinge;
 - h. a sag adjuster means, said sag adjuster means allowing the vehicle door to be positionally aligned in the motor vehicle thereby; and
 - i. a piston mounting plate, said piston mounting plate being attached to said fender mount assembly, said piston mounting plate having a hole defined therein, a spherical bearing is fixedly attached therein, a piston assembly is inserted through said spherical bearing and fixedly attached thereon, an opposing end of said piston assembly is rotatably attached to said door mounting assembly.
2. The two way hinge for motor vehicle doors of claim one wherein said first and said second threaded pins each have a bearing attached thereon, said bearings being

inserted through said first and said second holes of said first and said second bosses respectfully.

3. The two way hinge for motor vehicle doors of claim one wherein said third pin is threadably engaged into said door mount assembly.
4. The two way hinge for motor vehicle doors of claim one wherein said third threaded pin has a bearing attached thereon, said bearing being inserted into said counterbore portion of said counterbored hole of said pivot plate.
5. The two way hinge for motor vehicle doors of claim one wherein said sag adjuster means comprises a sag adjuster plate, said sag adjuster plate being attached to said pivot plate, a sag adjuster boss, said sag adjuster boss being attached to said door mount assembly, said sag adjuster boss having a threaded hole defined therein, said sag adjuster means is threadably inserted through said threaded hole in said sag adjuster boss and allows the sag adjuster means to bear on a face of said sag plate.
6. The two way hinge for motor vehicle doors of claim one, wherein, said two way hinge allowing the motor vehicle door to rotate outwards from the vehicle approximately twenty degrees firstly, clearing said fender guard thereby, then said two way hinge allowing the motor vehicle door to pivots upwards forty five degrees secondly providing easy ingress and egress from the motor vehicle.